



# 1998 Toxics Release Inventory

# TENNESSEE

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	87,118,682	45,625,408	132,744,090
Air Emissions	77,905,764	26,915,720	104,821,484
Surface Water Discharges	1,442,948	355,027	1,797,975
Underground Injection Class I Wells	3,816,300	0	3,816,300
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	137,682	54	137,736
Other On-site Land Releases	3,815,988	18,354,607	22,170,595
Off-site Releases (Transfers Off-site to Disposal)*	5,988,765	579,794	6,568,559
<b>Total On- and Off-site Releases</b>	<b>93,107,447</b>	<b>46,205,202</b>	<b>139,312,649</b>
Recycled On-site	213,074,975	8,005,410	221,080,385
Recycled Off-site	69,924,557	1,046,149	70,970,706
Energy Recovery On-site	89,442,272	122,783	89,565,055
Energy Recovery Off-site	4,868,429	3,735,732	8,604,161
Treated On-site	89,279,362	27,821,546	117,100,908
Treated Off-site**	10,284,402	11,487	10,295,889
Quantity Released On- and Off-site***	94,201,404	46,169,489	140,370,893
<b>Total Production-related Waste Managed</b>	<b>571,075,401</b>	<b>86,912,596</b>	<b>657,987,997</b>
<b>Total Non-production-related Waste Managed</b>	<b>746,569</b>	<b>3,331</b>	<b>749,900</b>

## Transfers Off-site for Further Waste Management/Disposal

	Original Industries	New Industries	Total
Recycling	65,960,666	954,998	66,915,664
Energy Recovery	4,798,137	3,733,800	8,531,937
Treatment	3,563,118	18,149	3,581,267
Publicly Owned Treatment Works (POTWs)	5,625,212	8,354	5,633,566
Metals and Metal Compounds*	49,617	250	49,867
Non-metal TRI Chemicals**	5,575,595	8,104	5,583,699
Other Off-site Transfers****	8,370	740	9,110
Off-site Transfers to Disposal (not including metals to POTWs)	7,739,250	579,545	8,318,795
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>87,694,753</b>	<b>5,295,586</b>	<b>92,990,339</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

## For More Information . . .

### State Contact:

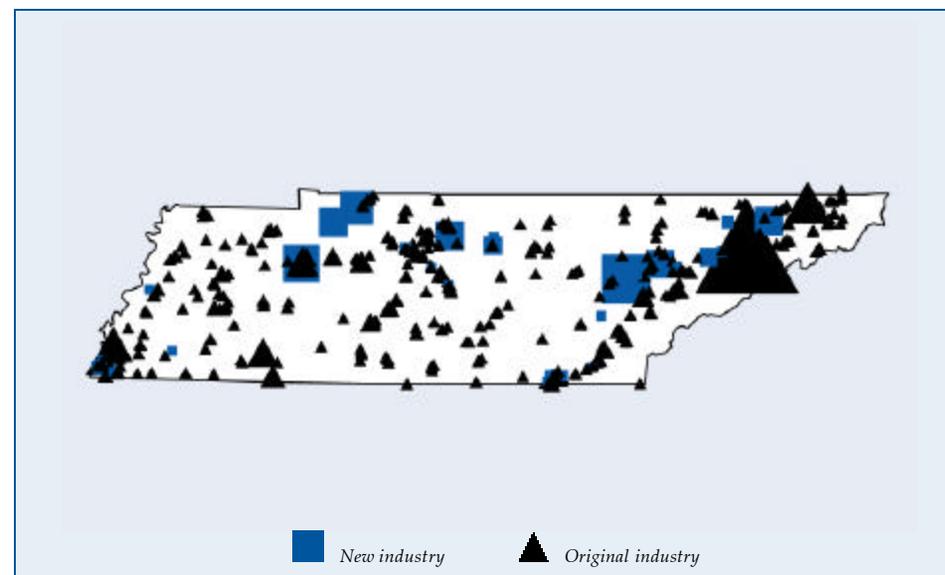
Betty Eaves  
(615) 741-2986  
Fax: (615) 242-9635

### EPA Regional Contact:

Ezequiel Velez  
(404) 562-9191  
Fax: (404) 562-9163

### To obtain TRI data use assistance, call

**TRI User Support Service (TRI-US):**  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Tennessee. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	5,430,621
Square Miles	41,220
Total Facilities	691
Total Forms	2,473
Form As	367

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	8	22	15
Pounds	93,107,447	46,205,202	139,312,649
<b>National Rank for Total On-site Releases**</b>			
Rank	5	20	13
Pounds	87,118,682	45,625,408	132,744,090
<b>National Rank for Total Releases within State***</b>			
Rank	9	22	15
Pounds	92,642,148	46,211,426	138,853,574
<b>National Rank for Production-related Waste Managed</b>			
Rank	14	17	17
Pounds	571,075,401	86,912,596	657,987,997

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1998 Toxics Release Inventory

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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
75-15-0	Carbon disulfide	20,505,005	171	0	0	0	20,505,176	480	0	0
67-56-1	Methanol	7,799,605	90,854	621,000	17,184	39,180	8,567,823	2,400	27,864	11,316
7664-41-7	Ammonia	6,865,014	413,937	860,000	5,748	383	8,145,082	10,562	333	50
100-42-5	Styrene	7,835,548	0	0	36,294	76,268	7,948,110	10,592	76,268	0
108-88-3	Toluene	7,600,192	304	0	4,544	35,747	7,640,787	1,046	22,551	13,956
—	Manganese compounds	63,270	4,420	2,050,000	2,403,354	677,942	5,198,986	772	376,629	301,313
—	Zinc compounds	311,765	44,545	0	445,698	2,927,469	3,729,477	107,145	1,289,964	1,637,505
7647-01-0	Hydrochloric acid	3,575,385	0	0	0	0	3,575,385	45,240	0	0
1330-20-7	Xylene (mixed isomers)	3,082,751	1,365	0	6,825	5,470	3,096,411	0	1,026	4,444
75-09-2	Dichloromethane	2,731,147	0	0	0	17,200	2,748,347	226	0	17,200

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	19,249,326	0	0	0	0	19,249,326	0	0	0
—	Zinc compounds	65,855	34,788	0	10,605,902	105,895	10,812,440	3,600	105,890	5
7664-93-9	Sulfuric acid	5,932,978	0	0	0	0	5,932,978	0	0	0
—	Barium compounds	15,905	64,300	0	3,257,010	286,205	3,623,420	2,500	286,200	5
7664-39-3	Hydrogen fluoride	1,504,135	0	0	0	0	1,504,135	0	0	0
—	Manganese compounds	7,671	191,400	0	998,836	40,880	1,238,787	0	40,880	0
—	Copper compounds	7,547	10,757	0	925,376	36,760	980,440	0	36,760	0
—	Lead compounds	3,673	3,729	0	789,980	16,800	814,182	170	16,795	5
—	Chromium compounds	3,565	4,650	0	491,200	29,555	528,970	371	29,555	0
—	Nickel compounds	2,515	7,100	0	457,400	28,060	495,075	250	28,060	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

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## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Lenzing Fibers Corp., Lowland, Hamblen	17,365,760	19,964	0	0	0	260,100	17,645,824	0	0
Tennessee Eastman Div., Kingsport, Sullivan	5,415,350	255,041	0	0	99,237	814,000	6,583,628	0	9,575
PCS Nitrogen Fertilizer L.P., Millington, Shelby	5,181,431	2,045	0	0	0	0	5,183,476	1,705	0
Du Pont Johnsonville Plant, New Johnsonville, Humphreys	1,484,850	145,750	2,331,000	0	0	125	3,961,725	0	0
Aguaglass Corp., Adamsville, Mc Nairy	3,787,540	0	0	0	0	36,519	3,824,059	0	0
Packaging Corp. of America, Counce, Hardin	2,452,955	8,110	0	0	0	15,700	2,476,765	0	0
Chemetal Inc., New Johnsonville, Humphreys	72,006	1,050	0	0	0	2,159,750	2,232,806	0	0
Quebecor Printing Inc., Dickson, Dickson	2,166,278	0	0	0	0	0	2,166,278	0	0
Viskase Corp., Loudon, Loudon	1,941,000	0	0	0	0	0	1,941,000	0	0
Du Pont Old Hickory Plant, Old Hickory, Davidson	1,810,440	48,706	0	0	0	0	1,859,146	9	4,609

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. TVA Kingston Fossil Plant, Harriman, Roane	7,817,950	54,750	0	0	0	1,550,500	9,423,200	20	5
U.S. TVA Johnsonville Fossil Plant, New Johnsonville, Humphreys	5,046,315	116,555	0	0	0	1,321,750	6,484,620	2,010	0
Pasminco Zinc Inc., Clarksville, Montgomery	168,384	8,079	0	0	54	5,500,785	5,677,302	0	0
U.S. TVA Gallatin Fossil Plant, Gallatin, Sumner	3,230,180	34,200	0	0	0	1,236,250	4,500,630	8,850	0
U.S. TVA Cumberland Fossil Plant, Cumberland City, Stewart	2,172,450	38,350	0	0	0	2,274,700	4,485,500	505	0
U.S. TVA John Sevier Fossil Plant, Rogersville, Hawkins	4,044,640	31,000	0	0	0	370,805	4,446,445	535	0
U.S. TVA Bull Run Fossil Plant, Clinton, Anderson	3,935,150	26,300	0	0	0	381,250	4,342,700	359,900	10
Savage Zinc Inc., Gordonsville Mine, Gordonsville, Smith	3,127	3,325	0	0	0	2,066,029	2,072,481	0	0
ASARCO Inc., Young Mine, Strawberry Plains, Jefferson	3,868	114	0	0	0	1,934,128	1,938,110	0	0
U.S. TVA Allen Fossil Plant, Memphis, Shelby	410,530	21,500	0	0	0	659,010	1,091,040	143,230	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1998 Toxics Release Inventory

# TENNESSEE

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Lenzing Fibers Corp., Lowland, Hamblen	7,364,000	0	0	0	200,000	0	17,482,910	25,046,910	0
Tennessee Eastman Div., Kingsport, Sullivan	540	2,930,260	7,480,928	245,000	27,040,565	1,661,721	6,596,325	45,955,339	1,495
PCS Nitrogen Fertilizer L.P., Millington, Shelby	0	31,700	0	0	41	200,260	5,183,065	5,415,066	6,360
Du Pont Johnsonville Plant, New Johnsonville, Humphreys	0	0	0	0	4,130,000	0	3,968,600	8,098,600	210
Aguaglass Corp., Adamsville, Mc Nairy	0	0	0	28,655	0	0	3,824,059	3,852,714	0
Packaging Corp. of America, Counce, Hardin	0	0	518,500	0	6,507,301	0	2,416,804	9,442,605	0
Chemetal Inc., New Johnsonville, Humphreys	0	0	0	0	0	0	2,199,357	2,199,357	0
Quebecor Printing Inc., Dickson, Dickson	14,405,357	99,069	0	2,510	0	446	2,166,278	16,673,660	0
Viskase Corp., Loudon, Loudon	0	0	0	0	0	46,000	1,900,000	1,946,000	0
Du Pont Old Hickory Plant, Old Hickory, Davidson	0	94,171	3,295,457	0	6,307,831	2,117	1,863,764	11,563,340	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
U.S. TVA Kingston Fossil Plant, Harriman, Roane	0	2,032	0	0	1,800,000	0	9,424,020	11,226,052	0
U.S. TVA Johnsonville Fossil Plant, New Johnsonville, Humphreys	0	685	0	0	3,118,000	0	6,478,020	9,596,705	0
Pasminco Zinc Inc., Clarksville, Montgomery	8,000,000	0	0	0	0	0	5,672,466	13,672,466	8
U.S. TVA Bull Run Fossil Plant, Clinton, Anderson	0	0	0	0	850,000	0	4,699,020	5,549,020	0
U.S. TVA Gallatin Fossil Plant, Gallatin, Sumner	0	3,113	0	0	1,300,000	0	4,497,020	5,800,133	0
U.S. TVA Cumberland Fossil Plant, Cumberland City, Stewart	0	757,000	0	0	17,892,000	0	4,485,120	23,134,120	0
U.S. TVA John Sevier Fossil Plant, Rogersville, Hawkins	0	110,000	0	0	890,000	0	4,449,000	5,449,000	0
Savage Zinc Inc. Gordonsville Mine, Gordonsville, Smith	0	0	0	0	0	0	2,072,481	2,072,481	0
ASARCO Inc. Young Mine, Strawberry Plains, Jefferson	0	0	0	0	0	0	1,938,120	1,938,120	0
U.S. TVA Allen Fossil Plant, Memphis, Shelby	0	20,056	0	0	1,743,000	0	1,235,047	2,998,103	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.